



Township of CASSELMAN

Report NO 11

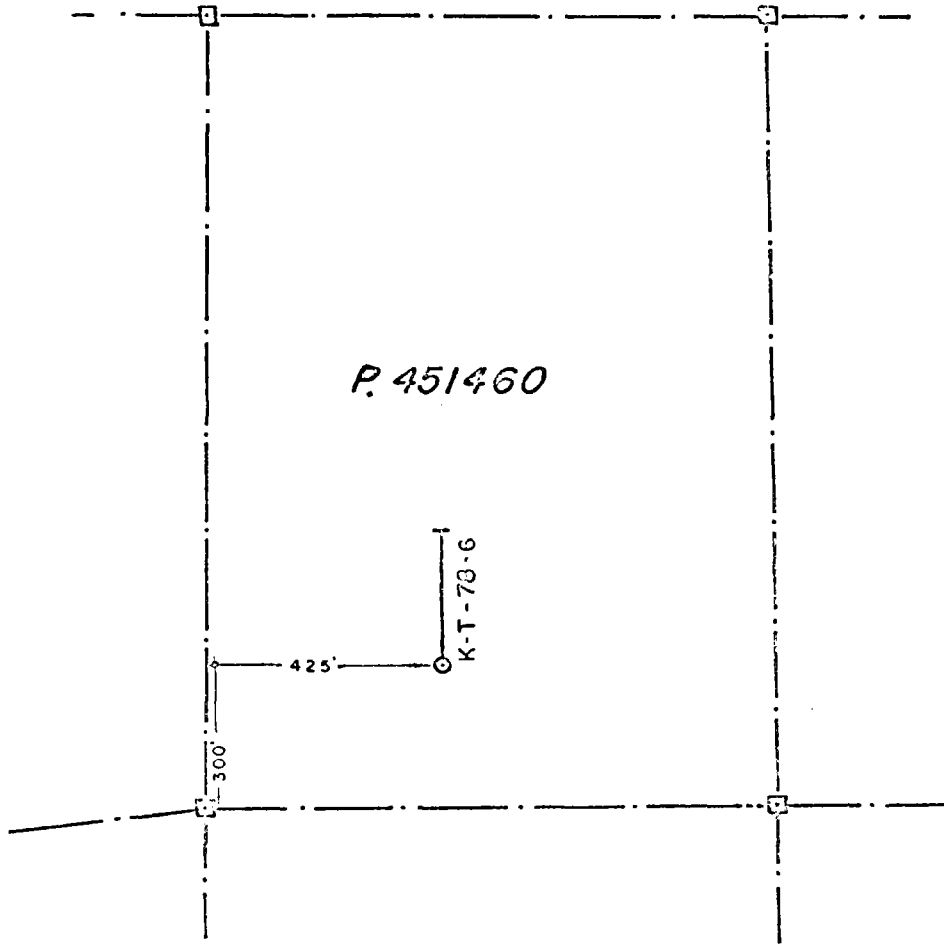
Work performed by: Mattagami Lake Mines Ltd.

Claim NO	Hole NO	Footage	Date	Note
P 451460	K-T-78-6	419.0'	Feb/78	(1)
x P 451345	K-G-78-9	517.0'	Mar/78	(2)
P 458755	K-E-78-5	507.0'	Feb/78	(3)
x P 451339	K-I-78-8	356.0'	Mar/78	(4)
~ P 394327	K-H-78-10	437.0'	Apr/78	(5)

## Notes:

- (1) #87-78
- (2) #116-78
- (3) #122-78
- (4) #123-78
- (5) #125-78

Casselman Top.  
#87-78



MATTAGAMI LAKE MINES LTD.  
EXPLORATION DIVISION

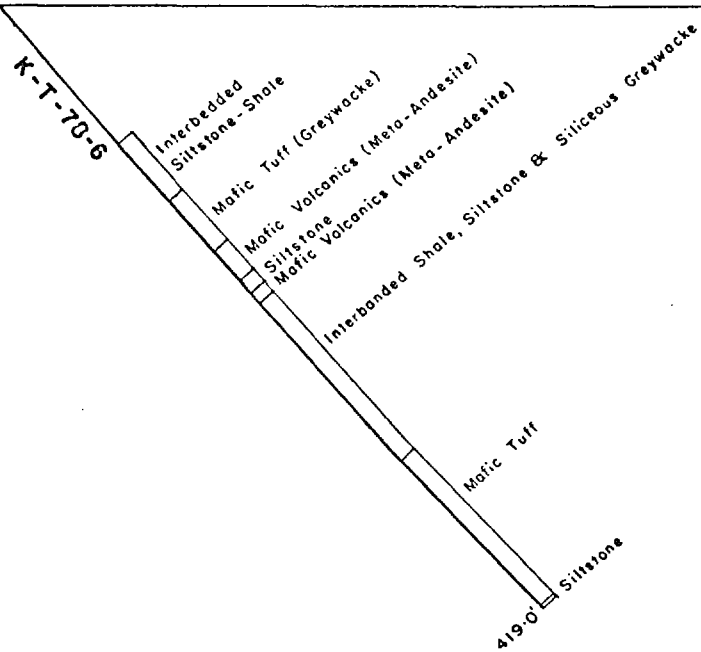
PROJECT: KAPUSKASING  
LOCATION PLAN  
D.D.H.# K-T-78-6

SCALE: 1" = 400 FEET

DATE: APR. 20, 1978

DRW. BY: R. S.

— NORTH —→



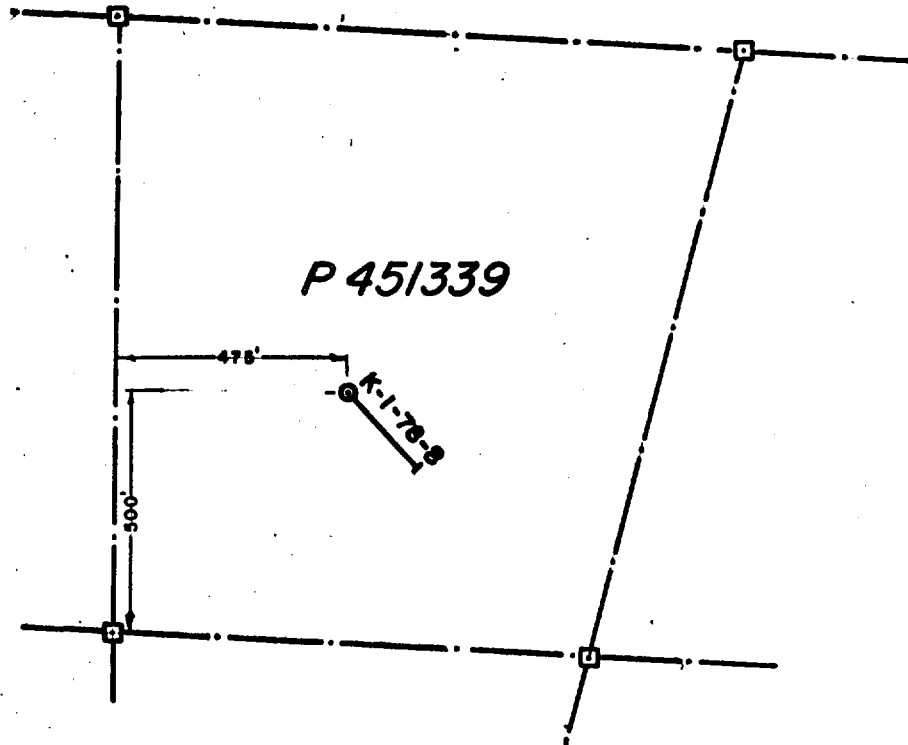
ONTARIO LAKES MINES LTD.  
EXPLORATION DIVISION

PROJECT: KAPUSKASING  
SECTION: 4+00 E.  
D.D.H.# K-T-78-6

SCALE: 1" = 100 FEET

DATE: MARCH 30, 1973      DRW. BY: R. S.





MATTAGAMI LAKE MINES LTD.

EXPLORATION DIVISION

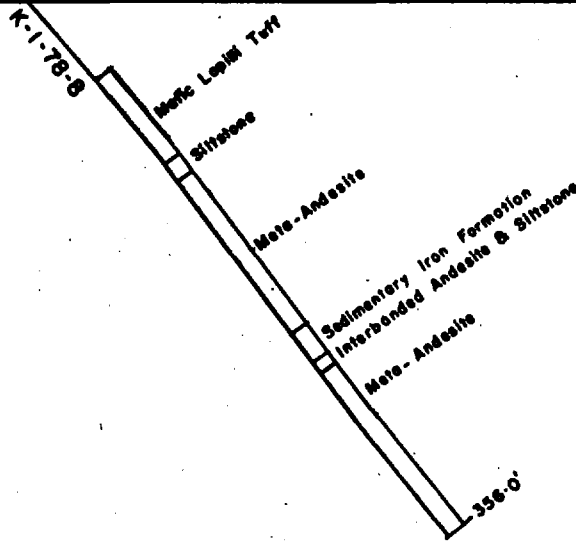
PROJECT: KAPUSKASING  
LOCATION OF  
D.D.H.# K-1-78-8

SCALE: 1" = 400 FEET

DATE: MAY. 8, 1978

DRW. BY: R.S.

———— S 50° E —————>



**MATTAGAMI LAKE MINES LTD.**

**EXPLORATION DIVISION**

**PROJECT: KAPUSKASING**

**SECTION: 7+50 W.**

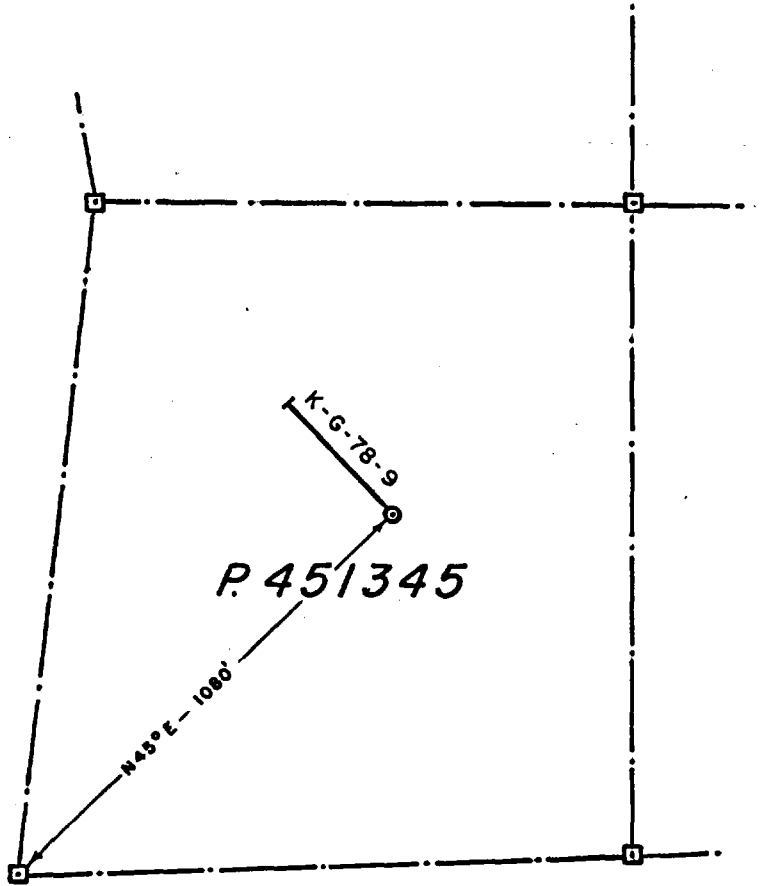
**D.D.H.# K-1-78-8**

**SCALE: 1" = 100 FEET**

**DATE: MAY. 8, 1978**

**DRW. BY: R. S.**





MATTAGAMI LAKE MINES LTD.

EXPLORATION DIVISION

PROJECT: KAPUSKASING  
LOCATION OF  
D.D.H.# K-G-78-9

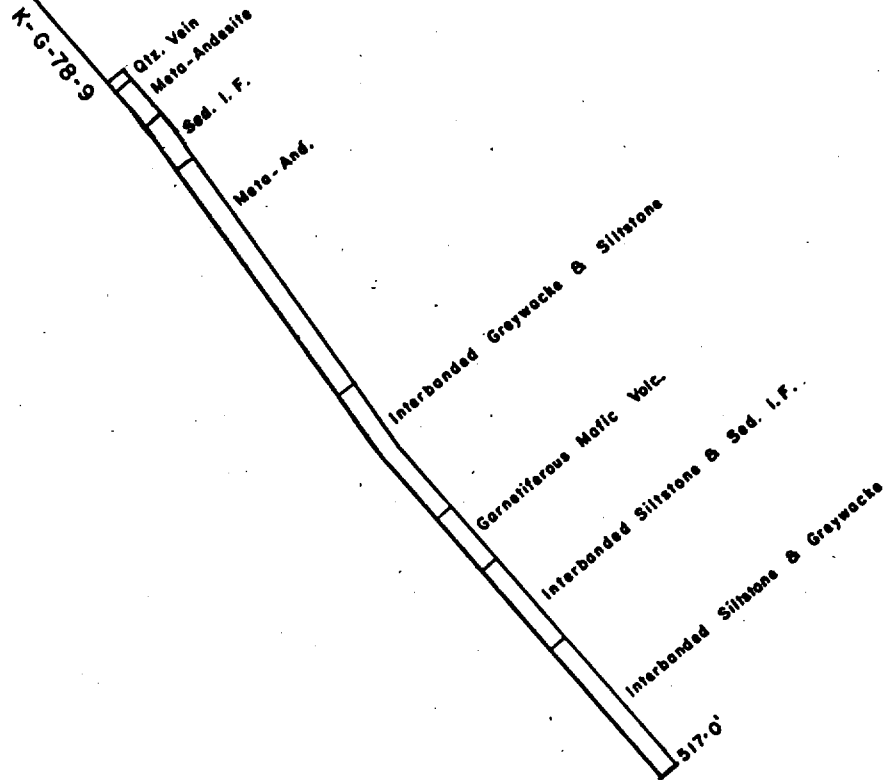
SCALE: 1" = 400 FEET

DATE: MAY 8, 1978

DRW. BY: R.S.



———— N 45°W —————→



<b>MATTAGAMI LAKE MINES LTD.</b>	
EXPLORATION DIVISION	
PROJECT:	KAPUSKASING
SECTION:	28+00 S.
D.D.H.#	K-G-78-9
SCALE: 1" = 100' - FEET	
DATE:	MAY 8, 1978
DRW. BY:	R. S.

MATTAGAMI LAKE MINES LIMITED - EXPLORATION DIVISION - DIAMOND DRILL HOLE RECORD

#116 for

PROPERTY	KAPUSKASING	LATITUDE	28 + 008	STARTED	MARCH 29, 1978	FOOTAGE	Corrected	DIP TEST	Corrected	FOOTAGE	Corrected	NI	NI	NI	NI	NI	NI
HOLE NO.	K-G-78-9	DEPARTURE	0 + 00	FINISHED	APRIL 1, 1978	2001	55'	FOOTAGE	50'	FOOTAGE	50'	NI		NI		NI	
BEARING	GRID WEST	ELEVATION	SURFACE	LENGTH	517.0 FEET	400'	50'	FOOTAGE	50'	FOOTAGE	50'	NI		NI		NI	
DIP-COLLAR	-50°	SECTION	-	LOGGED BY	P. NIELSEN												
FOOTAGE	From	To	DESCRIPTION	SAMPLE NO.	% Mineralization	From	To	Length	AG/FE	CU/NI	2N	NI	NI	NI	NI	NI	NI
0.0'	61.0'		CABINGI (Bedrock at 55').														
61.0'	66.8'		QUARTZ VEIN: Brecciated with angular mafic fragments 2-4mm diameter.	439		61.0	62.0	1.0	-/6.5	43/1160	63	122	3.5	0.02/43.7			
66.8'	89.0'		META-AMPHIBOLITE: Chloritic and siliceous layers 1-2mm width, siliceous layers are cryptocrystalline quartz and feldspar, possible recrystallization.	440		86.0	87.0	1.0	-/7.2	100/770	37	55	2.2	0.02/48.1			
89.0'	117.6'		SEDIMENTARY IRON FORMATION: Interbanded finely laminated 0.5-2.0mm magnetite and siliceous siltstone, magnetite accounts for 15-20% of the rock, biotite rich layers with subhedral magnetite and 1-2% po, bedding 25-30° to C.A.	9396 9397 9398 9399 9400 9401 941		89.0 94.0 99.0 104.0 109.0 114.0 111.0	94.0 99.0 104.0 109.0 114.0 114.0 118.9	5.0 5.0 5.0 5.0 5.0 1.0 4.9	1 1 1 1 1 1 1	138 105 82 76 120 930	153 96 95 111 168	47 60 73 78 46	1.4 1.0 1.0 2.5 1.6	0.02 0.01 0.02 0.02 0.02 0.02 0.02			
117.6'	260.5'		META-AMPHIBOLITE (METAGABBRO): Dark green coarse grained 2-4mm dia., ave. rounded chlorite grains after amphibole, matrix of quartz, feldspar and biotite minor fine grained sections. 165.2-166.8' quartz vein	386 442 443 444 445 446 447 448 449 450		114.0 136.0 161.0 186.0 211.0 236.0 261.0 311.0 336.0	118.9 137.0 162.0 187.0 212.0 237.0 262.0 312.0 337.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1 -/4.2 -/4.8 -/3.2 -/3.5 -/4.6 -/7.4 -/6.7 -/7.4	91/260 60/290 100/210 77/50 150/200 46/450 100/1330 133/1300 108/1000	15 33 8 11 10 22 43 58 53	36 35 18 16 19 66 40 68 133	1.8 2.8 2.8 1.7 1.9 1.9 2.3 1.1	0.01 0.02/53.0 0.02/48.4 0.01/49.5 0.02/49.1 0.02/48.8 0.02/43.8 0.02/42.9 0.02/43.7			
260.5'	340.7'		INTERBANDS GREYWALES AND SILTSTONE: Light green, grey, coarse grained sections are greywaks, visible clastic quartz grains; fine grained sections of similar composition are siltstone; bedding 25° to C.A. at 300°.	451 387 388 389 390 391 452 392 393 394 395 396 453		361.0 364.0 369.0 374.0 379.0 384.0 386.0 389.0 394.0 399.0 401.0 406.0 411.0 411.0	362.0 380.0 374.0 379.0 384.0 389.0 394.0 399.0 401.0 406.0 411.0 412.0 412.0 416.0	1.0 5.0 5.0 5.0 5.0 5.0 1.0 5.0 5.0 2.0 5.0 1.0 5.0	-/7.6 1 1 1 1 1 1 1 1 1 1 1 1	49/1200 147 77 87 53 147 58 96 100 147 277 101 236	40 65 51 39 24 210 73 50 41 45 135 70 68	37 124 47 51 37 37 83 233 57 53 63 76 64 62	3.2 1.9 1.7 1.3 1.3 1.3 1.3 1.3 1.6 1.1 1.1 1.3 1.3	0.01/50.0 0.01 0.02 0.01 0.02 0.01 0.01 0.01 0.01 0.02 0.02 0.01 0.01 0.01			
340.7'	377.8'		GABBROIC MAFIC VOLCANICS: Dark green, matrix of chlorite, dia accounting for 30-35% of the rock. 372.0-377.8' 5% magnetite and po stringers.	451 387 388 389 390 391 452 392 393 394 395 396 453		361.0 364.0 369.0 374.0 379.0 384.0 386.0 389.0 394.0 399.0 401.0 406.0 411.0 411.0	362.0 380.0 374.0 379.0 384.0 389.0 394.0 399.0 401.0 406.0 411.0 412.0 412.0 416.0	1.0 5.0 5.0 5.0 5.0 5.0 1.0 5.0 5.0 2.0 5.0 1.0 5.0	-/7.6 1 1 1 1 1 1 1 1 1 1 1 1	49/1200 147 77 87 53 147 58 96 100 147 277 101 236	40 65 51 39 24 210 73 50 41 45 135 70 68	37 124 47 51 37 37 83 233 57 53 63 76 64 62	3.2 1.9 1.7 1.3 1.3 1.3 1.3 1.3 1.6 1.1 1.1 1.3 1.3	0.01/50.0 0.01 0.02 0.01 0.02 0.01 0.01 0.01 0.01 0.02 0.02 0.01 0.01 0.01			
377.8'	429.5'		INTERBANDS SILTSTONE AND SEDIMENTARY IRON FORMATION: fine grained, finely laminated, siliceous light grey siltstone, with 5-6% dia po along bedding planes, finely laminated bands of magnetite and siltstone, magnetite content decreases down hole.	451 387 388 389 390 391 452 392 393 394 395 396 453		361.0 364.0 369.0 374.0 379.0 384.0 386.0 389.0 394.0 399.0 401.0 406.0 411.0 411.0	362.0 380.0 374.0 379.0 384.0 389.0 394.0 399.0 401.0 406.0 411.0 412.0 412.0 416.0	1.0 5.0 5.0 5.0 5.0 5.0 1.0 5.0 5.0 2.0 5.0 1.0 5.0	-/7.6 1 1 1 1 1 1 1 1 1 1 1 1	49/1200 147 77 87 53 147 58 96 100 147 277 101 236	40 65 51 39 24 210 73 50 41 45 135 70 68	37 124 47 51 37 37 83 233 57 53 63 76 64 62	3.2 1.9 1.7 1.3 1.3 1.3 1.3 1.3 1.6 1.1 1.1 1.3 1.3	0.01/50.0 0.01 0.02 0.01 0.02 0.01 0.01 0.01 0.01 0.02 0.02 0.01 0.01 0.01			

M.I.M. EXPLORATION DIVISION, D.D.H. RECORD

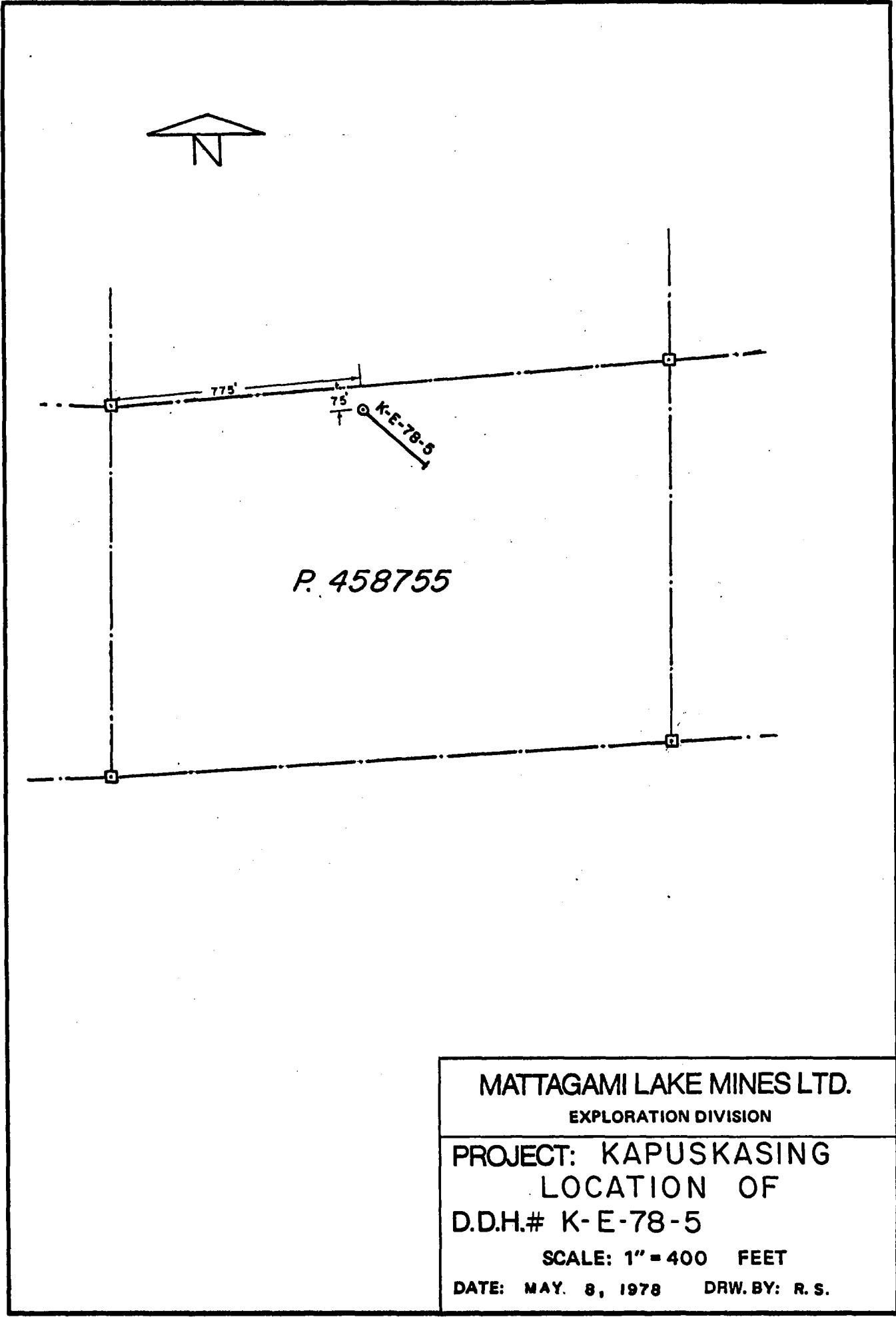
PROPERTY KAPURKASING

HOLE NO. K-G-78-9

Page 2 of 2

#116 fornic.

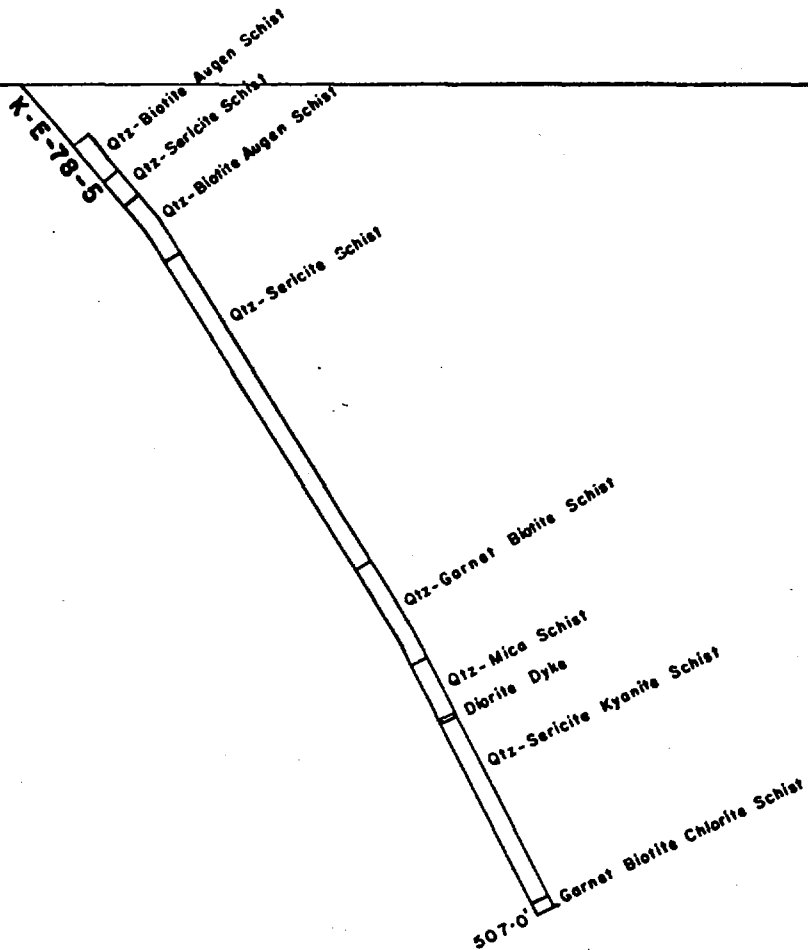
FOOTAGE		DESCRIPTION	Mineralization %	SAMPLE NO.	FOOTAGE		Length	DG/FS	CU/AM	ASSAYS			
From	To				From	To				ZN	NI	MB20	AV/ST
429.0'	517.0'	INTERBANDED SILTSTONE AND GREYWAKE: PO 1-28, magnetite 1-38 larger po stringers 2-30m width.	2-3 po, py	401	431.0	436.0	5.0	-	100	42	24	2.7	.002
			<1 po, py	402	436.0	437.0	1.0	/4.0	54	16	19		.002
			<1 py, po	403	436.0	439.5	3.5	-	68	22	18	3.9	.001
			2-3 po, py	404	439.5	444.4	4.9	-	73	18	13	4.3	.002
		END OF HOLE		404	444.4	449.3	4.9	-	100	38	21	4.4	.001
				456	461.0	462.0	1.0	-/5.6	50/600	64	41	1.8	.001/57.0
			5-7 py, po	405	463.7	465.8	2.1	1	198	104	46	1.1	.001
			NI	406	465.8	468.2	2.4	1	88	44	88	3.1	.002
			2-5 po, py	407	482.0	487.0	5.0	1	139	120	67	.5	.001
				455	486.0	487.0	1.0	/6.4	81	80	69		.52.0
			2-5 po, py	408	487.0	491.2	4.2	1	147	118	76	.3	.001
				457	511.0	512.0	1.0	/8.0	147/525	45	64	3.6	.001/45.8



P. 458755

MATTAGAMI LAKE MINES LTD. EXPLORATION DIVISION
PROJECT: KAPUSKASING LOCATION OF D.D.H.# K-E-78-5
SCALE: 1" = 400 FEET
DATE: MAY. 8, 1978      DRW. BY: R. S.

— S 50° E —→



MATTAGAMI LAKE MINES LTD.

EXPLORATION DIVISION

PROJECT: KAPUSKASING

SECTION: 6+00 E.

D.D.H.# K-E-78-5

SCALE: 1" = 100 FEET

DATE: MAY 8, 1978

DRW. BY: R. S.



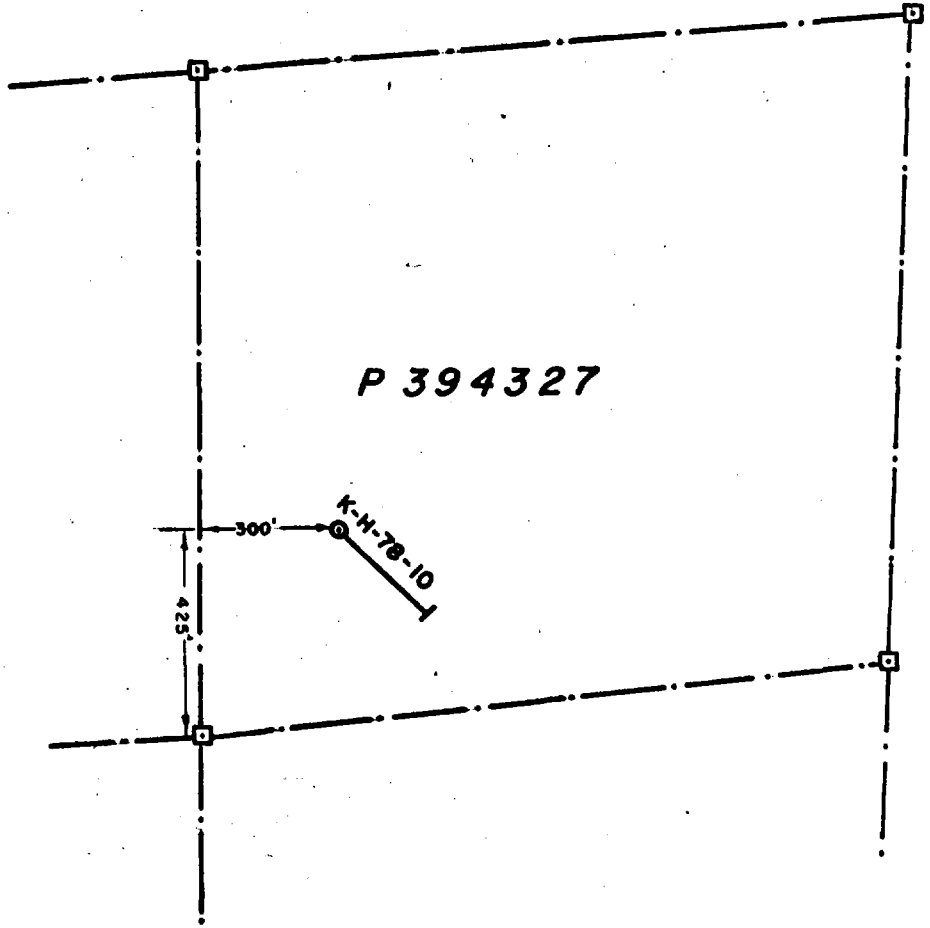
M.L.M. EXPLORATION DIVISION, D.O.M. RECORD

H 122 10RC.

PROPERTY KAPUKASING K-E-78-5

HOLE NO.

From	To	DESCRIPTION	Mineralization	SAMPLE NO.	FOOTAGE			AG	CU	Zn	ASSAYS					
					From	To	Length				NI	Na <sub>2</sub> O	AV	SI02	Fe	SiO2
395.3'	449.8	QUARTZ SERICITE KYANITE SCHIST: White to buff white, very schistose, ruddily; prominent kyanite crystals 0.5-1mm width ave. 5-10% rock, dis pyrite + pyrrhotite mineralization along foliation planes.		9353	395.3	400.3	5.0	1	94	65	180	1.26	.002			
				9354	400.3	405.3	5.0	1	107	78	281	1.9	.002			
				9355	405.3	410.3	5.0	1	118	93	275	1.7	.002			
				9356	410.3	415.3	5.0	1	70	28	146	1.7	.001			
				9357	415.3	416.8	1.5	1	75	45	138	1.6	.001			
		397.3-416.5 - 5-10% py, po		9358	416.8	419.4	2.6	1	200	176	425	1.2	.002			
		416.5-421.5 - 10-15% po, 5% py		9359	419.4	422.5	3.1	1	158	38	425	.6	.002			
		421.5-445.5 - 5% py, po sulphide non magnetic, metallic luster or specularite?		9360	422.5	427.4	4.9	1	42	27	84	1.3	.001			
				9361	427.4	431.8	4.4	1	50	27	100		.001			
				9362	431.8	436.6	4.8	-	52	31	84		.001			
		GARNET BIOTITE CHLORITE SCHIST (META ANDESITE): Dark green to		9363	436.6	441.0	4.4	-	68	53	135	.8	.001			
		black, biotite, chlorite matrix, rounded garnet crystals 10%		9364	441.0	445.9	4.9	1	101	121	165	.6	.002			
		rock ave.		1015	407.0	408.0	1.0	MN-140	PE-	4.3	SI02 -	62.4				
				1016	472.0	428.0	1.0	"	98	"	1.4	"	68.3			
		507.0'	END OF HOLE	1017	447.0	448.0	1.0	1	68	50	88	.7	.001			
				1018	467.0	468.0	1.0	MN-300	FE-	3.5	SI02	76.8				
								2	43	141	55	.5	.001			
								MN-461	FE-	4.4	SI02	62.8				



P 394327

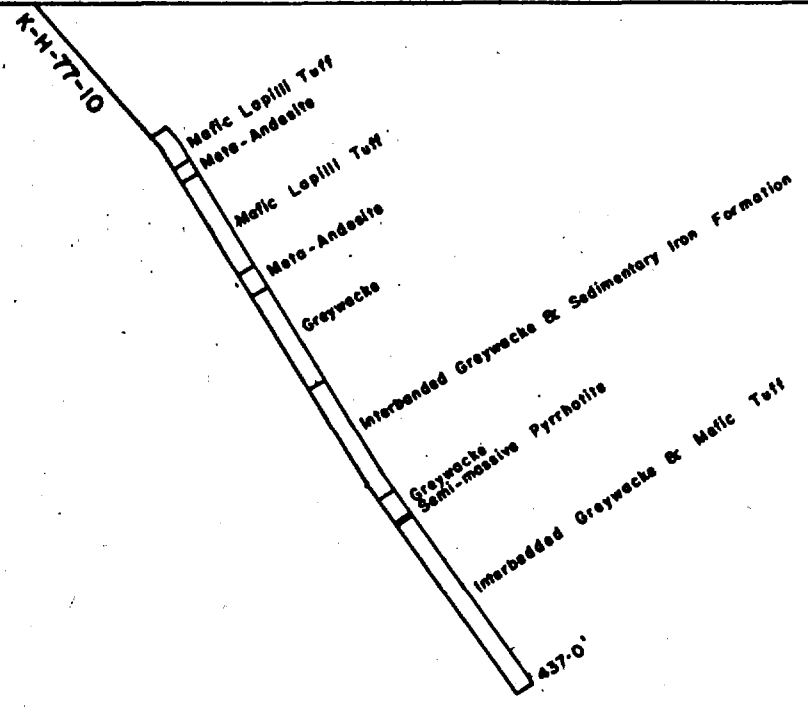
K-H-78-10

300'  
425'

<p><b>MATTAGAMI LAKE MINES LTD.</b> EXPLORATION DIVISION</p>
<p><b>PROJECT: KAPUSKASING</b> <b>LOCATION OF</b> <b>D.D.H.# K-H-78-10</b></p>
<p><b>SCALE: 1" = 400 FEET</b></p>
<p><b>DATE: MAY 16, 1978</b>      <b>DRW. BY: R.S.</b></p>



———— S 45° E —————>



**MATTAGAMI LAKE MINES LTD.**

EXPLORATION DIVISION

**PROJECT: KAPUSKASING**

**SECTION: 16+00 S.**

**D.D.H.# K-H-78-10**

**SCALE: 1" = 100 FEET**

**DATE: MAY 16, 1978 DRW. BY: R.S.**

MATTAGAMI LAKE MINES LIMITED - EXPLORATION DIVISION - DIAMOND DRILL HOLE RECORD

#125 *Recon Mine*

PROPERTY	KAPUSKASING	LATITUDE	16 + 00S	STARTED	APRIL 4, 1978	DIP TEST		CORRECTED	FOOTAGE	CORRECTED	FOOTAGE	CORRECTED	FOOTAGE	CORRECTED	FOOTAGE	CORRECTED	
						FOOTAGE	CORRECTED										
PROPERTY	KAPUSKASING	LATITUDE	16 + 00S	STARTED	APRIL 4, 1978	FOOTAGE		CORRECTED		FOOTAGE		CORRECTED		FOOTAGE		CORRECTED	
HOLE NO.	K-H-78-10	DEPARTURE	1 + 00W	FINISHED	APRIL 7, 1978	200'		59°									
BEARING	GRID EAST	ELEVATION	SURFACE	LENGTH	437.0 FEET	400'		55°									
DIP-COLLAR	-50°	SECTION	-	LOGGED BY	P. NIELSEN												
From	To	FOOTAGE		DESCRIPTION		SAMPLE NO.	% Mineralization	FOOTAGE		Length	AU/G	CU	ASSAYS		NI/FE	Ni/20	SI02
								From	To								
0.0'	93.0'			CASING, (Bedrock at 87.0')													
93.0'	111.5'			MAFIC LAPILLI TUFF: Light green grey, rounded fragments of 0.5-1.5cm diameter, slightly more siliceous than matrix, loosely packed, 20-40% of rock; matrix of anhedral chlorite grains 0.5-1.0mm diameter, Feldspar, biotite bedding 750 to C.A.	470	107.0	108.0	1.0'	.002/-	57	94/277	45/3.5	4.7			61.0	
111.5'	119.5'			META-ANDESITE: Dark green, chlorite alteration, Feldspar forming ophiolite texture, minor quartz veining.													
119.5'	174.0'			MAFIC LAPILLI TUFF (AGglomerate): Fragments generally larger than unit from 93.0-111.5, u to 60% of rock, 10-20cm dia.	471	132.0	133.0	1.0'	.002/-	88	68/395	45/4.3	2.9			55.6	
					472	157.0	158.0	1.0'	.001/-	90	65/539	57/3.6	5.5			55.4	
174.0'	188.0'			META-ANDESITE: As described from 111.5-119.5.	473	182.0	183.0	1.0'	.001/-	179	55/638	93/8.8	1.3			51.8	
188.0'	243.5'			GREYWACKE: Grey green, fine grained cherty sections/alteratio	474	207.0	208.0	1.0'	.001/1	72	97/	117/	3.3				
					475	232.0	233.0	1.0'	.002/2	87	86/893	128/6.4	2.9			44.9	
243.5'	311.5'			INTERBANDED GREYWACKE AND SEDIMENTARY IRON FORMATION: Grey-	458	243.3	248.3	5.0'	.002/-	93	55/	58/15.5	.6				
				wacke with cherty sections, diastolic quartz grains and biotite alteration in coarse grained sections, iron formation is banded with alternating siliceous siltstones and massive magnetite laminations 0.5-3.0mm ave. width, minor chlorite, iron formations are approximately 6-18 inches width containing up to 40-45% magnetite; Bedding 700 to C.A. at 310'.	459	248.3	253.3	5.0'	.001/-	49	30/	47/8.0	.3				
					460	253.3	258.0	4.7'	.002/-	55	43/	68/7.8	.6				
					476	257.0	258.0	1.0'									
					477	282.0	283.0	1.0'									
					461	281.5	286.5	5.0'	.002/1	105	111/	47/12.2	.4			52.5	
					462	286.5	291.5	5.0'	.001/-	103	141/	48/11.3	1.7				
					463	301.3	306.2	4.9'	.002/-	104	51/	48/12.7	1.1				
					464	306.2	309.2	3.0'	.002/-	443	198/	133/11.0	.4				
					465	309.2	311.2	2.0'	.002/-	108	50/	30/28.6	.2				
					466	311.2	313.2	2.0'	.001/-	374	61/	106/ 8.8	1.5				
311.5'	327.7'			GREYWACKE: In part mafic tuff, finer grained cherty unit from 93.0-111.5, cherty altered sections.	37964	307.0	308.0	1.0'	.002/1	502	257/171	111/13.4	1.8			59.5	
					467	327.7	328.6	1.9'	.001/2	2330	45/	6050/					
327.7'	328.6'			SEMI-MASSIVE PYRRHOTITE: Inclusions of mafic composition.	468	328.6	333.6	5.0'	.001/-	750	98/	344/	2.5				
328.6'	437.0'			INTERBEDDED GREYWACKE AND MAFIC TUFF: minor siltstone and mafic dykes; pyrrhotite stringers 328.6-335.3 5% of rock.	469	333.6	337.1	3.5'	.002/1	3330	58/	332/	2.7				
					37965	332.0	333.0	1.0'	.001/1	764	56/680	342/9.7	2.6			44.5	
					37966	357.0	358.0	1.0'	.001/1	103	66/	86/	3.9				
					37967	382.0	383.0	1.0'	.002/1	88	44/384	127/6.3	2.9			51.4	
					37968	407.0	408.0	1.0'	.001/1	50	81/285	50/3.0	3.9			63.2	
					37969	432.0	433.0	1.0'	.002/-	67	160/260	47/3.1	4.5			63.4	

5A 330

CASSELMAN

11

5A 329

42G01NW0017

5A 328